

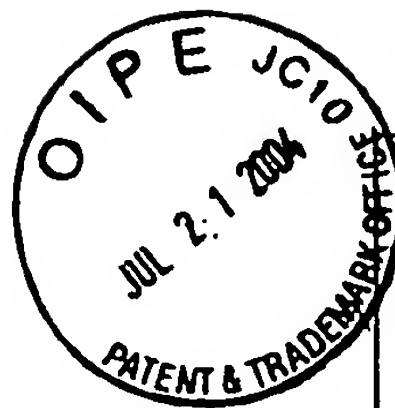
Please type a plus sign (+) inside this box ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0851-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET OF

Complete if Known

Application Number: 10/645,426

Filing Date: 8/21/03

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number: LEAPS C11

Examin er Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PD	US 3,571,614 A		Carreira	04/13/1997
PD	US 5,510,270 A		Fodor, et al.	04/23/1996

FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)			
PD		WO 96 07917 A		Nanogen	03/14/1996	
PD		WO 91 19023 A		Savin Corp.	12/12/1991	
PD		GB 2 058 379 A		AGFA GEVAERT	04/08/1981	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s).	T ₂
PD		YEH, S.R., et al. "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow". <i>Nature</i> , Mar 6, 1997: 57-59. Vol 386, No 6620	
Examiner Signature	/Pensee Do/		Date Considered 04/26/2006

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) SHEET <input type="text" value="1"/> OF <input type="text" value=""/>	Complete If Known	
	Application Number:	
	Filing Date:	
	First Named Inventor: M. S. ul, t al.	
	Group Art Unit:	
	Examiner Name:	
Attorney Docket Number:		

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
PD	6,083,763		Balch	7/4/2000
↓	6,172,218 B1		Brenner	1/9/2001
	5,415,835		Brueck, et al.	5/16/1995
	6,429,027 B1		Chee et al.	8/6/2002
	5,532,128		Eggers et al.	7/2/1996
	5,516,635		Ekins et al.	5/14/1996
	5,961,923		Nova et al.	10/5/1999
PD	5,770,358		Dower	7/23/1998

FOREIGN DOCUMENTS					
Examiner Initials	Foreign Patent Documents			Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number	Kind Code (if known)		
PD		WO 00/04372		Anstyn, et al.	1/27/2000
PD		WO 99/60170		Boier, et al.	11/25/1999
PD		WO 98/40726		Walt, et al.	2/8/2000
PD		WO 00/03004		Fechtner, et al.	1/20/2000
PD		WO 00/75373		Walt, et al.	12/14/2000

Examiner Signature	/Pensee Do/	Date Considered	04/26/2006
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FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket:

Serial No.:

Applicant:

Seul et al.

Filing Date:

10/17/00

Group Art Unit:

1

U.S. PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Name	Class	Sub-Class	Filing Date
PD	5,281,370	01/25/94	Asher et al.			
	5,516,635	05/15/96	Ekins et al.			
	5,518,883	05/21/96	Soini			
	5,415,835	05/16/95	Brueck			
	5,604,097	02/18/97	Brenner			
	5,800,992	09/01/98	Fodor			
	6,023,540	02/08/00	Walt et al.			
	6,327,410	12/04/01	Walt et al.			
	6,266,459	07/24/01	Walt et al.			
PD	6,429,027	08/06/02	Chee et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Patent Number	Publication Date	Country	Class	Sub-Class	Translation
PD	WO 93/02360	02/04/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
PD	WO 96/03212	02/08/96	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
PD	1,248,873	01/17/89	Canada			<input type="checkbox"/> Yes <input type="checkbox"/> No
PD	WO 93/06121	04/01/93	PCT			<input type="checkbox"/> Yes <input type="checkbox"/> No
						<input type="checkbox"/> Yes <input type="checkbox"/> No

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)

Materials from Freedom of Information Act pertaining to David R. Walt

Examiner

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Date Considered

04/26/2006

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609.
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.:		SERIAL NO.:	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE:		GROUP:	

U.S. PATENT DOCUMENTS													
EXAMINER INITIAL	CLASS	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PD	AA	4	4	8	8	0	5	2	2/12/85	Futwyler	422	52	8/30/82
	AB	4	8	4	7	5	4	4	3/3/87	Nicoli et al.	438	518	6/25/85
	AC	4	8	2	2	7	4	8	4/18/88	Walt	438	528	6/25/86
	AD	4	8	8	4	3	7	3	2/18/91	Stavrianopoulos et al.	435	8	7/20/89
	AE	5	0	0	2	8	6	7	3/26/91	Macevitz	435	8	10/24/88
	AF	5	0	2	8	5	4	5	7/2/91	Soini	438	501	8/9/88
	AG	5	1	0	5	3	0	5	4/14/92	Betzig	358	368	1/10/91
	AH	5	1	1	4	8	8	4	5/19/92	Walt	438	528	9/19/89
	AI	5	1	3	2	2	4	2	7/21/92	Cheung	436	501	11/13/89
V	AJ	5	1	3	2	0	9	7	7/21/92	Van Deusen et al.	422	82.09	9/4/90
PD	AK	5	1	4	3	8	5	3	8/1/92	Walt	438	501	2/2/89

FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL	CLASS	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
PD	AL	0	2	8	8	7	8	4	6/8/88	EP	C12Q	1/68		X
PD	AM	0	4	7	8	3	1	8	4/1/92	EP	C12Q	1/68		X
PD	AN	0	7	2	3	1	4	8	7/24/98	EP	G01N	21/64		X
PD	AO	8	8	1	1	1	0	1	11/18/89	PCT	G01N	33/546		X
PD	AP	9	3	0	2	3	8	0	2/4/93	PCT	G01N	33/536		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)		
PD	AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 884-869 (1980)
PD	AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
PD	AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

EXAMINER: /Pensee Do/	DATE CONSIDERED: 04/26/2006
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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: _____

SERIAL NO.: _____

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: _____

GROUP: _____

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PD	BA	5	1	8	4	3	0	0	3/16/93	Cheung	427	213.31	11/8/89
	BB	5	2	4	4	8	1	3	8/14/93	Walt et al.	436	172	4/20/92
	BC	5	2	4	4	8	3	6	8/14/93	Walt et al.	422	82.07	1/25/91
	BD	5	2	5	0	2	8	4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5	2	5	2	4	8	4	10/12/93	Walt	438	528	3/30/92
	BF	5	2	5	4	4	7	7	10/19/93	Walt	438	172	9/19/91
	BG	5	2	8	8	7	4	1	3/28/94	Walt et al.	250	227.23	1/13/93
	BH	5	3	0	8	8	1	8	4/26/94	Prober et al.	435	8	1/16/92
	BI	5	3	2	0	8	1	4	8/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5	3	8	2	8	5	3	11/8/94	Carr et al.	436	165	5/6/92
PD	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	438	523	2/25/93

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
PD	BL	9	3	0	8	1	2	1	4/1/93	PCT	C07H	21/00		x
PD	BM	9	3	2	4	5	1	7	12/9/93	PCT	C07K			x
PD	BN	9	7	1	4	0	2	8	4/17/87	PCT	G01N	15/10		x
	BO													
	BP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PD	BO	Barnard, et al. "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
PD	BR	Campion, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis, Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
PD	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388: 245-258 (1995).

EXAMINER

/Pensee Do/

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04/26/2006

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FORM PTO-1449
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

DOCKET NO.

SERIAL NO.

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2001

GROUP: 1

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PD	CA	5	4	8	0	7	2	3	1/2/98	Kleiner et al.	428	441	5/17/94
	CB	5	8	1	4	8	2	4	8/28/98	Wohl et al.	438	518	12/14/95
	CC	5	4	8	8	8	8	1	3/8/98	Pope	250	227.21	1/3/94
	CD	5	9	1	2	4	8	0	4/30/98	Wohl et al.	438	171	8/11/94
	CE	5	8	8	6	3	2	4	10/16/98	Birn et al.	435	8	4/13/94
	CF	5	6	8	7	8	2	7	10/22/98	Lerner	438	518	11/5/93
	CG	5	8	3	3	7	2	4	6/27/97	King et al.	358	445	9/29/95
	CH	5	8	3	3	8	7	3	6/27/97	Wohl et al.	385	118	11/29/95
	CI	5	8	6	0	4	8	1	7/22/97	Lam et al.	530	334	6/19/91
	CJ	5	8	6	2	0	6	8	1/29/97	Margul	428	403	1/25/95
PD	CK	5	8	7	4	8	9	8	10/7/97	Zarling et al.	435	7.92	3/30/91

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
CL												
CM												
CN												
CO												
CP												

OTHER PRIOR ART: None known to Applicant known to Applicant

FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: _____

SERIAL NO.: _____

LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PD	DA	5	6	9	0	8	9	4	11/25/97	Pinkel et al.	422	68.1	5/23/95
	DB	5	7	0	0	8	9	7	12/23/97	Klainer et al.	528	15	5/30/95
	DC	5	7	7	9	9	7	8	7/14/98	Leland et al.	422	52	6/5/95
	DD	5	9	3	9	0	2	1	8/17/99	Hansen et al.	422	55	1/23/97
	DE	5	9	8	1	9	2	3	10/5/99	Nova et al.	422	68.1	8/30/98
	DF	5	9	8	5	4	5	2	10/12/99	Kovacs	438	149	7/9/98
	DG	6	0	4	8	8	9	0	4/11/00	Hedder et al.	435	8	5/14/97
	DH	6	0	8	0	5	4	5	7/18/00	Wohlstadter et al.	435	8	3/8/97
	DI	6	0	8	0	9	1	2	7/18/00	Lebl et al.	530	300	11/23/98
PD	DJ	6	2	0	0	7	3	7	3/13/01	Walt et al.	430	320	8/24/95
	DK												

FOREIGN PATENT DOCUMENTS

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													YES	NO
	OL													
	OM													
	ON													
	OO													
	OP													

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PD	OQ	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-738 (1997)
PD	OR	Fulton, et al., "Advanced multiplexed analysis with the FlowMatrix system," Clinical Chemistry, vol. 43:9, pp. 1748-1758 (1997).
PD	OS	Scott et al., "Properties of fluorophores on solid phase resins; Implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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04/26/2006

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FORM PTO-1449
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7-10000-1000SERIAL NO.:
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LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: 10/01/00
2000

GROUP: 1000

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	EA						
	EB						
	EC						
	ED						
	EE						
	EF						
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	EH						
	EI						
	EJ						
	EK						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	EL							
	EM							
	EN							
	EO							
	EP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PD	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
PD	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

EXAMINER

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DATE CONSIDERED

04/26/2006

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FORM PTO-1449
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 4

SERIAL NO.: 10000000

LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT(S): SEUL, Michael

FILING DATE: 7

GROUP: 1000

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PD	AA	4	7	1	7	6	5	5	01/05/88	Fulwyle	435	7	10/15/84
	AB	5	5	7	3	9	0	9	11/12/96	Singer et al.	435	6	05/20/94
	AC	5	5	8	5	0	6	8	12/17/96	Zanzucchi et al.	422	100	11/10/94
	AD	5	5	8	3	8	3	8	01/14/97	Zanzucchi et al.	435	6	05/31/95
	AE	5	7	2	3	2	1	8	03/03/98	Haugland et al.	428	402	06/07/95
	AF	5	7	4	4	3	0	5	04/28/98	Fedor et al.	435	8	06/06/95
	AG	5	8	0	7	7	5	5	08/15/98	Ekhs	438	518	05/23/95
	AH	5	8	3	7	5	5	1	11/17/98	Ekhs	438	518	12/23/94
	AI	5	8	7	4	2	1	9	02/23/98	Rava et al.	435	8	04/09/96
	AJ	5	8	8	8	8	3	6	11/23/98	Dunlay et al.	435	7.2	02/27/97
PD	AK	8	0	2	3	5	4	0	02/08/00	Walt et al.	385	12	03/14/97

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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PD	AL	9	5	1	2	8	0	8	05/11/95	PCT	G01N	21/00		X
PD	AM	9	8	0	7	9	1	7	03/14/98	PCT	G01N	35/00		X
PD	AN	9	7	4	0	3	8	3	10/30/97	PCT	G01N	33/543		X
PD	AO	9	8	0	6	0	0	7	02/12/98	PCT	G03F	7/00		X
PD	AP	9	8	5	3	3	0	0	11/28/98	PCT	G01N	21/00		X

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

PD	AR	Michelotto et al., <i>Langmuir</i> , vol. 11, 3333-3338 (1995)
PD	AS	Nagayama et al., <i>Phase Transitions</i> , vol. 45, 185-203 (1993)
	AT	

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04/26/2006

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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO.:		SERIAL NO.:	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)						APPLICANT(S): SEUL, Michael			
						FILING DATE:		GROUP:	
U.S. PATENT DOCUMENTS									
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PD	AA 3 8 8 8 5 2 5	12/21/78	Giglio	350	160	08/21/75			
	AB 4 0 7 5 0 1 3	02/21/78	Ward et al.	88	1.5	09/13/76			
	AC 4 4 5 8 5 1 3	06/26/84	Kawal et al.	204	180	08/25/82			
	AD 4 5 7 5 4 0 7	03/11/88	Diller	204	67	10/24/84			
	AE 4 5 8 1 5 5 0	05/27/88	Hofman et al.	435	4	04/05/84			
	AF 5 4 4 4 3 3 0	08/22/95	Leventis et al.	313	508	02/18/93			
	AG 5 5 8 7 1 2 8	12/24/96	Wilding et al.	422	50	11/14/94			
	AH 5 4 9 8 3 9 2	03/12/96	Wilding et al.	422	68.1	09/19/94			
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PD	AJ 6 0 3 3 5 4 7	03/07/00	Trau et al.	204	622	01/04/99			
	AK								
FOREIGN PATENT DOCUMENTS									
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
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PD	AL 9 8 0 4 5 4 7	02/15/98	PCT	G01N	27/00		x		
	AM								
	AN								
	AO								
	AP								
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)									
PD	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 388.6: 57-59 (1997)							
PD	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336							
PD	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262 : 558 - 560 (1993)							
EXAMINER			DATE CONSIDERED						
/Pensee Do/			04/26/2006						
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FORM PTO-1449 (REV. 7-80)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO.: 100-100-0000		SERIAL NO.: 100-100-0000	
LIST OF PRIOR ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT(S): SEUL, Michael			
				FILING DATE: October 17, 2000		GROUP: 1	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	BB						
	BC						
	BD						
	BE						
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	BG						
	BH						
	BI						
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
PD	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 708-709 (1996)					
PD	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 478-483 (1995)					
PD	BL	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)					
PD	BM	Haab et al., "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3258 (1995)					
PD	BN	Richetti et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)					
PD	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 nd Edition) (Wiley Interscience 1981)					
	BF						
	BO						
	BR						
EXAMINER /Pensee Do/				DATE CONSIDERED 04/26/2006			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							